

AUG 16 1999



At pages 20 and 21, please delete Table 1 and its associated caption and insert the following:

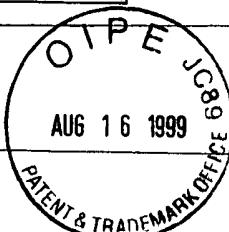
--Table 1. Cross reference to probes of the DuPont P1 library (Shepherd, *et al.*, *Proc. Natl. Acad. Sci. USA*, 92:2629 (1994) which is commercially available from Genomic Systems, St. Louis, Missouri, USA). PCR primers are illustrated for amplification of Sequence tag sites for each clone. In addition, PCR conditions (Mg concentration and annealing temperature), as well as PCR product size, is provided. Size: PCR product Size; mM MgCl: Mg concentration; Ann.: Annealing temperature; P1: P1 probe ID number; PC: DuPont Library Plate Coordinates; SCA: DuPont Library Single Clone address; SEQ-forward and SEQ-backward: forward and backward PCR primers, respectively; SEQ ID NO:-forward and SEQ ID NO:-backward: Sequence Listing SEQ ID NO: for forward and backward primers, respectively.

PRIMER NAME	SIZE (bp)	mM MgCl	Ann.	P1	PC	SCA	SEQ-forward	SEQ-backward	SEQ ID NO forward	SEQ ID NO:-backward
352.32	136	1.5	52	20	103-e5	1228e	TTGGCATTGGTAT CAGGTAGCTG	TTGGAGCAGAGA GGGGATTGTGTG	22	23
388.13 F1/B1	201	1.5	52	17	69g6	821	AATCCCCTCAAAC CCTGCTGCTAC	TGGAGCCTGAACT TCTGCAATC	24	25
				19	98f4	1167f	"	"	"	"
D20S183	270	3	48	30		124g6	CCGGGATACCGAC ATTG	TGCACATAAAC AGCCAGC	26	27
				40	24h1	276h	"	"	"	"
D20S211 $\frac{1}{2}$	135	1.5	52	29	119f4	1418f	TTGGAATCAATGG AGCAAAA	AGCTTTACCCAAT GTGGTCC	28	29
D20S480	300	3	55	68	100d12	1199d 2	GTGGTGAACACCA ATAAATGG	AAGCAAATAAAA CCAATAACTCG	30	31
				41	86c1	1020c	"	"	"	"
				42	103d9	1232d	"	"	"	"
				67	91b2	1081b 9	"	"	"	"
9X-SP6 hmF/hmB	165	1.5	55	7	31d11	370d	CAAGATCTGACCC CGTCAATC	GACTTCTTCAGGA AAGAGATCAGTG	32	33
				9	3519	416f	"	"	"	"
11S-17 F2/B4	146	3	58	11	41bl	480b	GCCATGTACCCAC CTGAAAAATC	TCAGAACACCGT GCAGAAATTAAG	34	35
12T-T7 F2/B1	153	3	58	12	42c2	493c	CCTAAAACCTGGT GCTTAAATCTA	GTCTCACAAAGGCA GATGTGG	36	37
28T F1/B1	219	1.5	52	74		888f2	TTTGTGTATGTTG AGCCATC	CTTCCAATCTCAT TCTATGAGG	38	39
				2	12c6	137c	"	"	"	"
				25	118c11	1413c	"	"	"	"
				26	118c11	1413c	"	"	"	"
28S F1/B3	214	1.5	55	28	118g11	1413g	GCTTGTTAACGTG TCACTAGGG	CACTCTGGTAAAT GACCTTGTC	40	41
				25	118c11	1413c	"	"	"	"
				27	118g11	1413g	"	"	"	"
				10	36f10	429f	"	"	"	"
69S	100	3	55	69		412b5	CCTACACCATTCC AACTTTGG	GCCAGATGTATGT TTGCTACGGAAC	42	43

PRIMER NAME	SIZE (bp)	mM MgCl	Ann.	P1	PC	SCA	SEQ-forward	SEQ-backward	SEQ ID NO forward	SEQ ID NO:- backward
			5	23c1	264c		"	"	"	"
HSCOFH 032 F/B	129	1.5	55	3	12-e11	142e	TCTCAAACCTGTC CACTTCTTG	CTGCTGTGGTCCA GAATGG	44	45
			18	77a10	921a		"	"	"	"
60A1	191	1.5	58	36	112g8	1139g	TGTCCTCCTTCTC CCTCATCCTAC	AATGCCTCCACTC ACAGGAATG	46	47
			39	34a6	401a		"	"	"	"
820F5A1 T F1/B1	175	1.5	48	15	53c7	630c	CCTCTTCAGTGTC TTCCTATTGA	GGGAGGAGGTTG TAGGCAAC	48	49
			16	58b9	692b		"	"	"	"
10311f33 T7F3/B3				185		1141 D7				

At page 21, please delete Table 2 and its associated caption and insert the following:

Table 2. Cross reference to probes of the BAC library. Clone # refers to the clone number provided, e.g., in Figures 3, 4 and 7, while the plate coordinates are the plate coordinates in the Research Genetics BAC library. Size: PCR product Size; mM MgCl: Mg concentration; Ann.: Annealing temperature; BAC #: BAC probe ID number; SEQ-forward and SEQ-backward: forward and backward PCR primers, respectively; SEQ ID NO:-forward and SEQ ID NO:-backward: Sequence Listing SEQ ID NO: for forward and backward primers, respectively.



PRIMER NAME	SIZE (bp)	mM MgCl	Ann.	BAC #	BAC Plate Coordinates	SEQ-forward	SEQ-backward	SEQ ID NO. forward	SEQ ID NO. backward
18TF1/B1	156	3	62	99	L11 plate 146	AGCAAAGCAAA GGTGGCACAC	TGACATGGGAGA AGACACACTTCC	50	51
9SF1/B1	214	1.5	55	97	E8 plate 183	AGGTTTACCAAT GTGTTTGG	TCTACATCCCAT TCTCTTCTG	52	53
D20S480	300	3	55	95	H15 plate 140	GTGGTGAACACC AATAAATGG	AAGCAAATAAAA CCAATAAACTCG	54	55
D20S211 1/2	135	1.5	52	103	A15 plate 188	TTGGAATCAATG GAGCAAAA	AGCTTTACCCAA TGTGGTCC	56	57
				102	A1 plate 46	"	"	"	"
11S-17 F2/B4	146	3	58	100	E4 plate 43	GCCATGTACCCA CCTGAAAAATC	TCAGAACACCCG TGCAGAATTAAG	58	59
				101	J5 plate 118	"	"	"	"
CYP24				87	J14 plate 96				
ET4211				104	C10 plate 754				
ET03.17				121	C10 plate 10				
D20S902				166	I4 plate 226				
180-R F1/B1				188	G21 plate 163				
164-1Ff1/b2				197	N13 plate 309				